

## Painting Concrete Paving & Floors



### 1 Introduction to painting concrete paving & floors

Floor coatings are specially designed to be tough and abrasion resistant. Special properties such as acid and oil resistance may be required for certain floors, e.g. in garages and workshops. Cast in situ concrete is often used for driveway and other paving applications. This material is often

not cured properly (i.e. using an impermeable membrane such as a polythene cover) and subsequently the surface layers fail to cure adequately and a sandy, friable surface is produced.



### 2 Surface preparation

This is the critical part of any painting project: poor preparation is the principal cause of coating failure. The object of surface preparation is to provide a strong surface before applying any paint. The necessary steps are as follows:

1. Wash the surface thoroughly using water and a strong brush. This should remove all loosely bound sand particles and any poorly adhering paint coatings. A high-pressure water jet is recommended.
2. Rinse the floor with clean water and then leave it to dry out. The moisture content should be below 15%. This can be measured using a moisture meter.
3. Check the adhesion of any existing paint coatings by pressing adhesive tape (e.g. masking tape) onto the dry surface. Pull the tape off the surface and inspect the underside of the tape.

- No coating removed; no dirt or chalky material on the tape: Surface is suitable for painting\*
  - Powdery layer removed Surface is chalky: apply Promac Bondex
  - Sandy particles removed Surface is friable: rewash the surface\*\*
  - Paint coating removed Surface under the coating is weak: Strip the paint film and repeat the cleaning process.
- \* It may not be possible to remove all sand particles. It is recommended that Promac Bondex be applied to seal any residual particles.
4. If Promac Bondex has been applied to the surface, leave it to harden for at least 2 hours before continuing.



### 3 Paint application

#### 1. Acrylic Coating System:

Apply Promac Bondex to the surface, leave to cure for at least 2 hours, then apply Promac Allguard to the surface using a roller (wool or "Propile" type); brush or by airless spraying. Two coats are recommended for optimum durability and quality of finish. Allow the first coat to cure for at least 2 hours before applying the final coat.

#### 2. Epoxy Coating System:

Mix the two components (4 epoxy base + 1 hardener, by

volume). Add 15% lacquer thinners. Apply to the surface using a brush or mohair (enamel) roller. Leave to cure overnight then reapply without diluting the paint. Note that this product has a pot life. If its consistency starts to thicken, do not use the product.

#### 3. Enamel Coating System:

Apply Promac Plaster Primer using a mohair (enamel) roller or brush. Leave to cure overnight then apply Promac Stoep Enamel using a mohair (enamel) roller or brush.



### 4 Comparison of coating systems

Product	Type	Gloss level	Specific Properties	Interior/Exterior use
Allguard	Acrylic waterborne	Medium sheen	Exterior durability, Paving & driveways	Both
Propox	Epoxy enamel, twin pack	High gloss	Chemical and abrasion resistance	Interior only
Stoep Enamel	Polyurethane alkyd	Semi-gloss	Lower cost than epoxy, not as resistant as epoxy enamel	Interior / Exterior shaded areas



### 5 Other important information

1. NEVER apply paint if rain is forecast, or expected, during the day of application
2. Apply paint after 8h00 (summer) or 10h00 (winter) to ensure the roof is not too cold or damp.
3. It is recommended that the paint is applied before 12h00 to avoid excessive roof temperatures and to allow the paint to harden sufficiently before any afternoon rain may occur.
4. Always use the SAME batch number for touch-up work. This reduces colour/sheen variations, which otherwise may be visible on the painted roof.

Contact Promac Paints for further information as well as details of your nearest stockist.

Promac Paints: Tel: (012) 800 1055 - Fax: (012) 800 4046



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